

Claims

- [c1] A downhole tool for reducing debris in a perforation in a wellbore, the perforation extending from the wellbore into a subterranean formations, the tool comprising:
a housing positionable in the wellbore; and
an arm in the housing and extendable therefrom; and
at least one plug in the housing, the plug positionable in the perforation via the arm, the plug adapted to block debris from formation fluid flowing into the housing via the perforation whereby the contamination in the formation fluid is reduced.
- [c2] The downhole tool of claim 1 wherein the downhole tool further comprises a perforator adapted to create the perforation.
- [c3] The downhole tool of claim 2 wherein the perforator is a punching tool.
- [c4] The downhole tool of claim 2 wherein the perforator is a drilling tool.
- [c5] The downhole tool of claim 2 wherein the perforator has a bit positionable in the perforation and operable between a stationary and an activated mode, wherein in the

stationary mode the bit permits the flow of fluid past the outer surface of the bit while blocking the flow of debris, and wherein in the activated mode the bit is movable to dislodging debris in the perforation.

- [c6] The downhole tool of claim 5 wherein in the activated mode the bit is movable by one of rotation, advancement, retraction and combinations thereof.
- [c7] The downhole tool of claim 2 wherein the at least one plug is at least one filter plug.
- [c8] The downhole tool of claim 7 wherein the perforator is capable of creating a perforation through the filter plug.
- [c9] The downhole tool of claim 1 wherein the at least one plug comprises at least one seal plug for sealing the perforation.
- [c10] The downhole tool of claim 1 wherein the at least one plug is at least one filter plug.
- [c11] The downhole tool of claim 10 wherein the filter plugs are stacked concentrically in the perforation.
- [c12] The downhole tool of claim 10 wherein the filter plugs are stacked linearly in the perforation.
- [c13] The downhole tool of claim 10 wherein the filter plug has

a body, at least a portion of the body comprising mesh.

- [c14] The downhole tool of claim 13 wherein the filter plug has a lip, the lip having a diameter greater than the diameter of the body.
- [c15] The downhole tool of claim 13 wherein the body is cylindrical.
- [c16] The downhole tool of claim 13 wherein the body is frusto-conical.
- [c17] The downhole tool of claim 1, wherein the wellbore is an openhole wellbore.
- [c18] The downhole tool of claim 1, wherein the wellbore is a cased wellbore.
- [c19] The downhole tool of claim 1, further comprising a seal capable of sealing the housing about the perforation to isolate the formation fluid from contaminants in the wellbore.
- [c20] The downhole tool of claim 1 wherein the at least one plug is a bit and wherein the bit is adapted to create the perforation.
- [c21] The downhole tool of claim 20 wherein the bit is positionable in the perforation and operable between a sta-

tionary and an activated mode, wherein in the stationary mode the bit permits the flow of fluid past the outer surface of the bit while blocking the flow of debris, and wherein in the activated mode the bit is movable to dislodging debris in the perforation.

[c22] The downhole tool of claim 1 further comprising a magazine for storing the plugs within the housing.

[c23] A method for reducing debris in a perforation in a wellbore, the perforation extending from the wellbore into a subterranean formations, comprising:
positioning a downhole tool in the wellbore, the downhole tool having a bit extendable therefrom;
positioning the bit in the perforation to block debris as formation fluid flows from the perforation into the housing whereby contamination is reduced in the formation fluid collected in the downhole tool.

[c24] The method of claim 23 further comprising creating a perforation in the sidewall of the wellbore.

[c25] The method of claim 23 further comprising detecting debris in the perforation.

[c26] The method of claim 23 further comprising activating the bit to dislodge debris from the perforation.

- [c27] The method of claim 26 wherein the step of activating comprise one of rotating the bit, advancing the bit, retracting the bit, and combinations thereof.
- [c28] The method of claim 23 further comprising plugging the perforation.
- [c29] The method of claim 23 further comprising positioning at least one filter in the perforation.
- [c30] The method of claim 29 further comprising advancing the bit through the filter.
- [c31] The method of claim 29 further comprising stacking filters in the perforation.
- [c32] The method of claim 31 wherein the filters are stacked concentrically.
- [c33] The method of claim 31 wherein the filters are stacked linearly.
- [c34] The method of claim 23 wherein the wellbore is a cased wellbore.
- [c35] The method of claim 23 wherein the wellbore is an open wellbore.
- [c36] A method for reducing debris in a perforation in a wellbore, the perforation extending from a wellbore into a

subterranean formations, comprising:

positioning a downhole tool in the wellbore, the downhole tool having at least one filter therein;

deploying the at least one filter from the downhole tool and into the perforation whereby debris is prevented from passing from the perforation into the downhole tool.

[c37] The method of claim 36 wherein the drilling tool further comprises a perforator and wherein the method further comprises creating a perforation in the sidewall of the wellbore.

[c38] The method of claim 37 further comprising detecting debris in the perforation.

[c39] The method of claim 37 further comprising perforating through the filter.

[c40] The method of claim 37 wherein the perforator has a bit, the method further comprising activating the bit to dislodge debris from the perforation.

[c41] The method of claim 40 wherein the step of activating comprise one of rotating the bit, advancing the bit, retracting the bit, and combinations thereof.

[c42] The method of claim 36 further comprising plugging the

perforation.

[c43] The method of claim 36 wherein a plurality of filters are deployed from the downhole tool and into the wellbore, the filters stacked in the perforation.

[c44] The method of claim 43 wherein the filters are stacked concentrically.

[c45] The method of claim 43 wherein the filters are stacked linearly.

[c46] The method of claim 36 wherein the wellbore is a cased wellbore.

[c47] The method of claim 36 wherein the wellbore is an open wellbore.